

## **Abstract**

A level shifter, with body-biased circuits, is provided for applying in a thin film transistor liquid crystal display (TFT-LCD). The body-biased circuits are configured to bias the bodies of the input terminal transistors of the level shifter so that the threshold voltages of the input terminal transistors are adjustable. This level shifter is capable of operating at a high frequency with low power consumption while a low-level signal is inputting.